



United States Department of Agriculture



# Resource Stewardship Evaluation Tool (RSET)

## Range Evaluations



Natural  
Resources  
Conservation  
Service

[nrcs.usda.gov/](https://nrcs.usda.gov/)

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**Updated October 2018**



## Resource Stewardship Overview

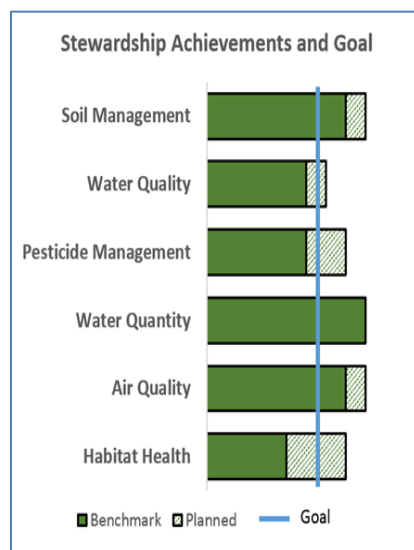


Resource Stewardship (RS) is a voluntary service provided by NRCS through a new evaluation tool. RS enhances conservation planning by benchmarking the level of resource stewardship on the land and helping NRCS clients better identify their conservation goals and improve their outcomes.

RS (also known as the Resource Stewardship Evaluation Tool or RSET) uses a web-based platform to evaluate the health of soil, water, air, and wildlife habitat. RS evaluates a user defined management system against the inherent site characteristics to perform this evaluation.

Upon the completion of RS, clients receive a report called the Resource Stewardship Evaluation (RSE) which visually graphs their stewardship achievements and suggests opportunities to improve resource stewardship. Evaluations are available for crop, pasture, range, forest, farmstead, and associated ag land uses.

If you would like a Resource Stewardship Evaluation completed on your operation, please reach out to your [local NRCS office](#).



Left: Example visual from an RSE report, highlighting where a client's operation scores on each of the criteria listed in comparison to the vertical blue threshold bar. The shaded bars suggest opportunities the client can take to meet or surpass the threshold bar and improve resource stewardship.

*Please note that to maintain and protect confidential client information, only NRCS staff and specific partners can currently access RS.* To access [Resource Stewardship](#), visit <https://rs.sc.egov.usda.gov/Splash.aspx/>.

The following instructional walk-throughs are developed for those with access to RS to use as a resource while completing evaluations, as well as for those interested in learning more about RS.



## Client Search Overview

Selecting a client and Planned Land Unit (PLU) is the first step in Resource Stewardship (RS). Please note that only NRCS staff and select partners have access to detailed client information within RS.



After logging into [Resource Stewardship](https://rs.sc.egov.usda.gov/Splash.aspx) (<https://rs.sc.egov.usda.gov/Splash.aspx>), a search bar will be displayed to search for clients and identify a Planned Land Unit (PLU) to evaluate. Access to clients is determined by individual user's role(s) in the Customer Service Toolkit (CST), managed through the zroles system.

It is important to note that a PLU must be identified and created in CST prior to running an evaluation. A PLU is a unique geographic area, defined by a polygon, which has common land use and is owned, operated, or managed by the same cooperator(s). The PLU is the minimum unit for planning and evaluation. RS pulls PLUs from CST. PLUs must be in Plan (green) or in Locked (red) status and will be imported from an existing conservation map plan by searching for the land user's name. PLUs may or may not correspond to the Farm Service Agency (FSA) tracts and fields identified in the Common Land Unit (CLU) layer maintained by FSA depending on how the PLUs were setup in toolkit by the conservation planner. Any number of planned land units may be evaluated individually or together in an operation evaluation. When performing the evaluation, adjacent land which is outside of the PLU but integral to the PLU management system will also be considered when evaluating the PLU. For instance, management of field bordering vegetation and adjacent conservation practices, such as windbreaks, may also provide wildlife benefits, as well as have an effect on soil, water, and air quality.

## Client Search Walk-Through


### STEP 1: Identify the Client

1. Search the National Planning and Agreements Database (NPAD) for a client by entering the client name in the search string and clicking the **Search Clients** button. The returned client results can be narrowed down to clients in state and county or the initial client search can specifically search for clients by state and county. Uncheck the **Exact Word Match** box for clients with an ampersand (&) in their name.






**Client**

Enter Search String :  [Search Clients](#) ☒ Exact Word Match


State:  County:

If numerous clients are returned, the client list can be sorted numerically or alphabetically by clicking on the column header.

**Client**

Enter Search String :  [Search Clients](#) ☒ Exact Word Match


State:  County:

**Clients** 


Name	Street Address	City	State	Zip Code	Phone
ROSE LAKE PLANT MATERIAL CENTER	7472 STOLL RD	EAST LANSING	MI	48823	

2. Select the client by clicking on the client's name.

**Client**


Enter Search String :  [Search Clients](#) ☒ Exact Word Match

State:  County:

**Clients** 

Name	Street Address	City	State	Zip Code	Phone
ROSE LAKE PLANT MATERIAL CENTER	7472 STOLL RD	EAST LANSING	MI	48823	

Existing PLUs (if any) and operation evaluations will be displayed.


**Evaluations for ROSE LAKE PLANT MATERIAL CENTER** 

Status	Result Type	Name	Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark	11769/ 6	Crop	5.01	YES	08/22/2017	6896
<input checked="" type="checkbox"/>	Standard	Alt Scenario 2	11769/ 2	Crop	1.37	NO	10/17/2017	6897
<input type="checkbox"/>	Standard	Alt Scenario - new PLU	11769/ 5	Crop	11.2	NO	11/13/2017	6898
<input checked="" type="checkbox"/>	Standard	Alt Scenario	11769/ 6	Crop	5.01	NO	12/29/2017	6899

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## Step 2: Identify the Planned Land Unit

1. Click on the **View Client Land Units** button  to view the client's land units.

**Clients** 

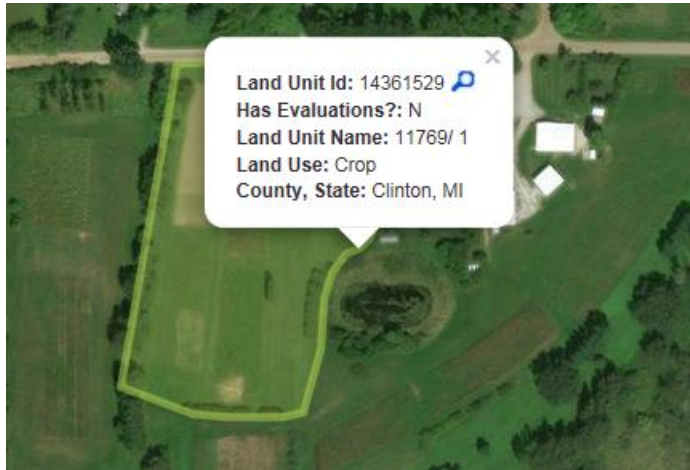
Name	Street Address	City	State	Zip Code
ROSE LAKE PLANT MATERIAL CENTER	7472 STOLL RD	EAST LANSING	MI	48823
NRCS/GREAT BASIN PLANT MATERIAL CEN		FALLON	NV	89406

[View Client Land Units](#)



The land units can be sorted numerically or alphabetically by clicking the up or down arrow located on the column header.

- If several land units are associated with this client, determine which one to select. Click on a land unit in the display area to view the attributes. To dismiss the popup, click the x located in the upper right corner or click in the map area off of the land unit.



### *Navigating the Display Area*

Zoom In	Click the Zoom In  button or roll the mouse scroll wheel away from you.
Zoom Out	Click the Zoom Out  button or roll the mouse scroll wheel towards from
Pan	Hold down the left mouse button or scroll wheel and move the mouse.

- Click the **View or Add Evaluations** button associated with the selected land unit.

Land Details for ROSE LAKE PLANT MATERIAL CENTER						
Land Units for ROSE LAKE PLANT MATERIAL CENTER						
Id		Eval?	Land Unit Name	County, State	Tract	Land Use
14361529		N	11769/ 1	Clinton, MI	11769	Crop
14361536		Y	11769/ 2	Clinton, MI	11769	Crop
14361538		N	11769/ 3	Clinton, MI	11769	Crop
14361695		N	11769/ 4	Clinton, MI	11769	Crop
14361708		Y	11769/ 5	Clinton, MI	11769	Crop

An Evaluations tab is added.

Search

Client **PLU: ROSE LAKE PLANT MATERIAL CENTER** Evaluations: **11769/ 1**

11769/ 1 Evaluations

Status	Result Type	Name	Land Use	Acres	Benchmark	Date	Id
Page 1 of 0							

No results found.



## Creating a New Evaluation Overview

RS allows users to create two different types of evaluations: a benchmark and an alternate scenario. A benchmark designation is meant to act as a starting point for conservation planning. RS envisions the opportunities for evaluating multiple alternative scenarios as part of the planning process, as well as documenting implementation and effects as conservation practices and activities are applied.

Alternate scenarios may be related to specific conservation plans, programs, or evaluation dates documenting continuous improvement. The user should select a name for the evaluation which appropriately indicates its relationship.

## Creating a New Evaluation Walk-Through

Once a client and planned land unit (PLU) have been selected, the Evaluations tab will be added on the Client bar in the Search tab.



1. Click the **Add New Evaluation**  button.



2. The Add New Evaluation dialog opens. In the Add New Evaluation dialog, enter the **evaluation name**, **date**, and answer **Yes** if this is the benchmark evaluation. The benchmark represents the current condition. There can only be one benchmark per PLU but there can be many alternate scenario evaluations. The date for the evaluation defaults to the date it was create in RS. The user may modify this date to reflect when the field evaluation was conducted.

A screenshot of the 'Add New Evaluation' dialog box. It has a title bar 'Add New Evaluation'. Inside, there are three fields: 'Name:' with the text 'Benchmark', 'Date:' with the text '08/22/2017', and 'Benchmark:' with a dropdown menu showing 'YES'. At the bottom of the dialog are two buttons: 'Submit' and 'Cancel'.

3. Click the **Submit** button when done.





The evaluation is added to the evaluation list.

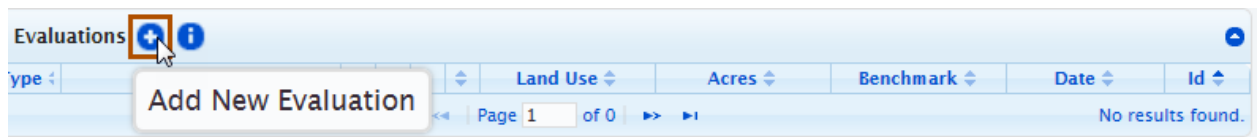
Status	Result Type	Name	Land Use	Acres	Benchmark	Date	Id
Standard	Benchmark	Crop	Crop	5.01	YES	08/22/2017	6896

## Creating a New Evaluation for Mutable Land Uses

For land uses categorized in NPAD as protected, undetermined, or other rural land, RS will offer the user the option to select a directly supported land use. In the example below, an evaluation on a protected land use PLU is selected for a client.



1. After selecting the client and a PLU on a mutable land use (protected, undetermined, or other rural land), from the Evaluations tab, select the **Add New Evaluation** button.



2. The Add New Evaluation dialogue opens. Enter the **evaluation name**, **date**, and answer **Yes** if this is the benchmark evaluation. Because this is an evaluation on a mutable land use (protected, undetermined, or other rural land), select the directly supported **land use** type (associated ag land, crop, farmstead, forest, pasture, or range).

**Add New Evaluation**

Name:

Date: 08/07/2018

Benchmark: YES ☐

Land Use:

















Associated Ag Land  
Crop  
Farmstead  
Forest  
Pasture  
Range

Submit Cancel



3. Click **Submit** when done.

The evaluation is added to the evaluation list. Because the directly supported land use selected was “pasture”, note that the land use is displayed as “pasture (protected)”.

Evaluations  									
Status 	Result Type 	Name 				Land Use 	Acres 	Benchmark 	Date 
	Standard	Protected Eval				Pasture (Protected)	0.1	YES	08/07/2018
Page 1 of 1									

All evaluations on a given PLU must be of the same land use type.



## Evaluations Bar Overview

Once an evaluation has been created, it will appear in the Evaluations bar list under the Search tab. The Evaluations bar is where the user can select previous evaluations that have been started or completed for the client. The Evaluations bar displays the result type, the name, the land unit, the land use, acres, benchmark, date, and Id. The Evaluations bar also allows the user to edit, copy, or delete evaluations.

**Result type:** Displays standard or alternative evaluations based on whether the user selected final result type (alternative evaluations utilize input from stand alone tools).

**Name:** User defined

**Land Unit:** Customer Service Toolkit (CST) PLU identifying number, typically the FSA tract/field number

**Acres:** Size of PLU

**Benchmark:** Yes/No flag identifying benchmark status

**Date:** Date evaluation performed (default date is the date evaluation was created but this may be modified by user to reflect the date the evaluation was performed in the field)


**Id:** RS identifying number for PLU



## Evaluations Bar Walk-Through


Click on the desired evaluation to activate it.

Client

Enter Search String : 


☒ Exact Word Match

State: 
County:

Clients 

Name	Street Address	City	State	Zip Code	Phone
JIMMY CARTER PLANT MATERIAL CENTER	295 MORRIS DR	AMERICUS	GA	31719	--
BIG FLATS PLANT MATERIAL CENTER	3266A STATE ROUTE 352	CORNING	NY	14830	--
ROSE LAKE PLANT MATERIAL CENTER	7472 STOLL RD	EAST LANSING	MI	48823	--
NRCS/GREAT BASIN PLANT MATERIAL CENTI	111 SHECKLER RD	FALLON	NV	89406	:
KIKA DE LA GARZA PLANT MATERIAL CENTE	3409 N FM 1355	KINGSVILLE	TX	78363	:


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Evaluations for ROSE LAKE PLANT MATERIAL CENTER 

Status	Result Type	Name	Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark	11769/ 6	Crop	5.01	YES	08/22/2017	6896

Evaluations can be edited, copied, and pasted to another PLU, or can be deleted. Select the appropriate button to edit, copy, or delete an evaluation.

 Edit Evaluation: Feature allows user to edit name and date of evaluation

 Copy Evaluation: Feature allows user to copy an evaluation to run alternate scenarios on the existing PLU or transfer the management system defined in this evaluation to a new PLU

 Delete Evaluation: Permanently deletes evaluation

### Copy Evaluation Feature Overview


The copy evaluation feature is available to copy an evaluation to evaluate and compare an alternative scenario or take the current management system that was evaluated and apply it to a different PLU. This feature allows copying to either the current client's PLU or any other PLU as identified by the user.

Any number of alternative evaluations or alternative scenarios may be attached to a PLU. Comparisons may be made against the benchmark evaluation or other alternative evaluations. In the evaluation results section, the user may directly compare two different evaluations on the same report.



## Copy an Evaluation to the Current PLU

1. Copy an evaluation by clicking the **Copy Evaluation** button.

Evaluations for ROSE LAKE PLANT MATERIAL CENTER									
Status	Result Type	Name		Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark		11769/ 6	Crop	5.01	YES	08/22/2017	6896

2. This opens an evaluation dialogue. To create an alternative scenario on the existing plan unit, enter the **Name** of the evaluation and edit the **Date** or **Benchmark** as appropriate. Click **Submit** when finished.

**Copy Evaluation**

Name:

Date:

Benchmark:




Copy Evaluation to Same Land Unit:

Submit

Cancel

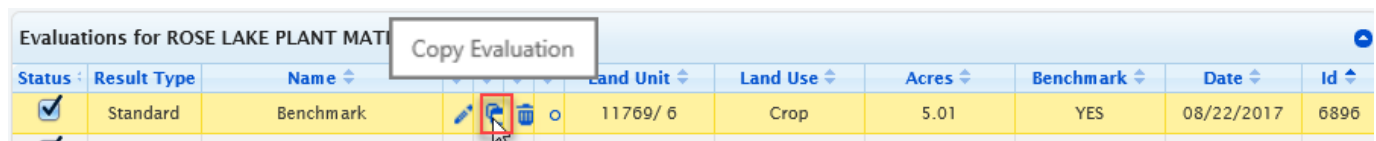
The tool defaults to copying an evaluation on the existing PLU.

3. Click on the evaluation to activate it.

Evaluations for ROSE LAKE PLANT MATERIAL CENTER									
Status	Result Type	Name		Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark		11769/ 6	Crop	5.01	YES	08/22/2017	6896
<input checked="" type="checkbox"/>	Standard	Alt Scenario - new PLU		11769/ 5	Crop	11.2	NO	11/13/2017	6898
<input checked="" type="checkbox"/>	Standard	Alt Scenario		11769/ 6	Crop	5.01	NO	12/27/2017	6899

## Copy an Evaluation to a Different PLU (Current Client or Different Clients)

1. Copy an evaluation by clicking the **Copy Evaluation** button.

Evaluations for ROSE LAKE PLANT MATERIAL CENTER									
Status	Result Type	Name		Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark		11769/ 6	Crop	5.01	YES	08/22/2017	6896



- This opens an evaluation dialogue. Enter the **Name** of the evaluation and edit the **Date** or **Benchmark** as appropriate. To create an alternative scenario on a different PLU, select No for **Copy Evaluation to Same Land Unit**.

**Copy Evaluation**

Name: Alt Scenario-new PLU  
 Date: 11/13/2017  
 Benchmark: NO ☐  
 Copy Evaluation to Same Land Unit: NO ☐

- The evaluation dialogue box will display new land units under the existing client and the search feature to look for another client. Select either the different PLU or search for a new client and select the target PLU for that client. Click **Submit** when finished.

**Copy Evaluation**

Name: Alt Scenario-new PLU  
 Date: 11/13/2017  
 Benchmark: NO ☐  
 Copy Evaluation to Same Land Unit: NO ☐

Enter Search String:  [Search Clients](#) ☒ Exact Word Match

Land Units for ROSE LAKE PLANT MATERIAL CENTER

Id	Eval?	Land Unit Name	County, State	Tract	Land Use
14361529	N	11769/ 1	Clinton, MI	11769	Crop
14361536	N	11769/ 2	Clinton, MI	11769	Crop
14361538	N	11769/ 3	Clinton, MI	11769	Crop
14361695	N	11769/ 4	Clinton, MI	11769	Crop
14361708	Y	11769/ 5	Clinton, MI	11769	Crop
14361713	Y	11769/ 6	Clinton, MI	11769	Crop
14361720	Y	11769/ 35	Clinton, MI	11769	Farmstead
14361745	N	11769/ 34	Clinton, MI	11769	Forest
14361751	N	11769/ 33	Clinton, MI	11769	Crop
14361759	N	11769/ 32	Clinton, MI	11769	Associated Ag Land

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[Submit](#) [Cancel](#)

- Click on the evaluation to activate it.

Evaluations for ROSE LAKE PLANT MATERIAL CENTER												
Status	Result Type	Name					Land Unit	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Benchmark					11769/ 6	Crop	5.01	YES	08/22/2017	6896
<input checked="" type="checkbox"/>	Standard	Alt Scenario - new PLU					11769/ 5	Crop	11.2	NO	11/13/2017	6898



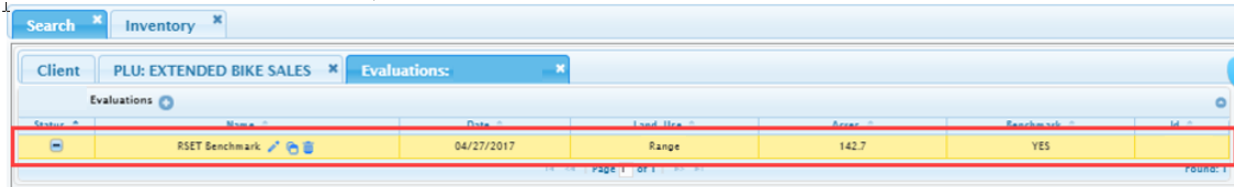


## Range Inventory Overview

After identifying the client and planned land unit (PLU), the next step is to complete the Range Inventory information. The inventory information entered will provide resultant Factor and Threshold values. This overview helps guide the conversation about resource concerns needing treatment, existing infrastructure that can aid in treatment alternatives, and a quick glimpse at stocking rate and animal distribution suitability.

## Range Inventory Walk-Through

1. From the Search bar, select the desired evaluation for the client.



Status	Name	Date	Land Use	Area	Benchmark	Id
	RSET Benchmark	04/27/2017	Range	142.7	YES	

2. Click on the **Inventory** tab or select the Inventory box on the **Roadmap** .



3. Enter the requested PLU Grazing Inventory Range information and click the **Save** button when finished.

Note: If the value field is red it is required.



**PLU Grazing Inventory Range**

Online Help: Go to [Range Inventory Help](#)

Note: All fields are required unless otherwise noted.

Desired Stewardship Level:

Predominant Forage Type:

Estimated Forage Removed per year:

Forage Units:

Has gully erosion been controlled to the Field Office Technical Guide specification ⓘ:

There is evidence of wind erosion areas that have not been stabilized (dunes, blowout areas, sand drifts, etc) ⓘ:

Desirable forage/browse plants have decreased over time ⓘ:

Invasive or other undesirable plants that reduce the amount and/or quality of forage for livestock or wildlife are increasing ⓘ:

Location and condition of structural improvements/infrastructure have been mapped (eg., fences, roads, water troughs and tanks, etc) ⓘ:

A forage inventory has been completed ⓘ:

Stocking Rate is appropriate to provide Soil Cover, Protect Water Quality, and provide for appropriate livestock growth/production. ⓘ:

Animal Distribution is appropriate to provide Soil Cover and Protect Water Quality ⓘ:

[Save](#)

**Desired Stewardship Level:** National Resource Stewardship

**Predominant Forage Type:** Select answer from drop-down

- a. Annual Forbs, cool season
- b. Annual Forbs, warm season
- c. Annual Grasses, cool season
- d. Annual Grasses, warm season
- e. Leguminous Forbs, cool season
- f. Leguminous Forbs, warm season
- g. Non-Leguminous Forbs, cool season
- h. Non-Leguminous Forms, warm season
- i. Perennial Bunch and Sod Grasses
- j. Perennial Bunchgrasses
- k. Perennial grass & Perennial legume mixed, cool, & warm season
- l. Perennial Sod Grasses

**Estimated Forage Removed per year:** Numeric value

Note: Required, must be a number from 0.01 to 99999.99, 2 decimal places allowed

**Forage Units:** Select answer from drop-down



- a. Acres/Animal Unit Day
- b. Acres/Animal Unit Month
- c. Acres/Animal Units/Year
- d. Animal Units Days/Acre
- e. Animal Unit Month/Acre
- f. Animal Units/Acre/Year
- g. Pounds/Acre/Year
- h. Tons/Acre/Year

**Has gully erosion been controlled to the Field Office Technical Guide specification:** Yes/No

Note: There is evidence of active, uncontrolled soil erosion

**There is evidence of wind erosion areas that have not been stabilized (dunes, blowout areas, sand drifts, etc):** Yes/No

Note: There is evidence of active, uncontrolled soil erosion

**Desirable forage/browse plants have decreased over time:** Yes/No

Note: Desirable forage/browse plants can be native or introduced species, but do not include plants recognized as invasive (per Presidential Executive Order 13112), noxious, or toxic.

**Invasive or other undesirable plants that reduce the amount and/or quality of forage for livestock or wildlife are increasing:** Yes/No

Note: Invasive plants include those meeting the definition in Presidential Executive Order 13112. Undesirable plants are simply those not considered to be the best forage species available for livestock and/or wildlife consumption, due to factors such as poor quality, anti-foraging characteristics, etc.

**Location and condition of structural improvements/infrastructure have been mapped (e.g., fences, roads, water troughs and tanks, etc):** Yes/No

Note: The producer must be able to show written documentation supporting a Yes response.

**A forage inventory has been completed:** Yes/No

Note: The forage inventory includes: species composition (or functional group composition); total plant production amount; available forage production amount.



Actual clipping data, ocular estimates, and other production estimation sources  
(Extension, ESDs, etc.)

**Stocking Rate is appropriate to provide Soil Cover, Protect Water Quality, and provide for appropriate livestock growth/production: Yes/No**

Note: The producer must be able to show written documentation supporting a Yes response.

**Animal Distribution is appropriate to provide Soil Cover and Protect Water Quality: Yes/No**

Note: The producer must be able to show written documentation supporting a Yes response.

Resultant Factor, Threshold and Management Points are displayed.

**Factor values determined:**

- Soil Leaching Potential
- Soil Runoff Potential
- R Factor

**Threshold values determined:**

- Land Health
- Sediment in Surface Water
- Surface Phosphorus Loss
- Subsurface Phosphorus Loss
- Surface Nitrogen Loss
- Subsurface Nitrogen Loss
- Pesticide Management (Leaching)
- Pesticide Management (Solution Runoff)
- Pesticide Management (Adsorbed Runoff)
- Pesticide Management (Drift)

**Management Points:**

- PLU Grazing Inventory
- Residue – Sediment in Surface Water
- Residue - Pesticide Management (Leaching)
- Residue - Pesticide Management (Solution Runoff)
- Residue - Pesticide Management (Adsorbed Runoff)

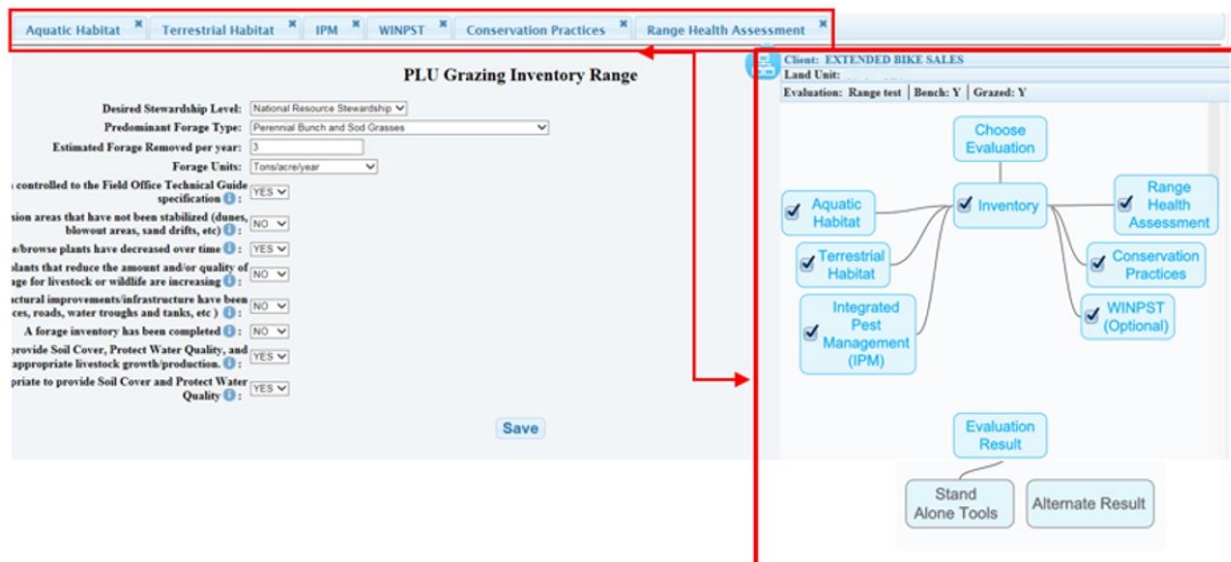


Residue - Pesticide Management (Drift)  
 Winter Cover - Pesticide Management (Leaching)  
 Winter Cover - Pesticide Management (Solution Runoff)  
 Winter Cover - Pesticide Management (Adsorbed Runoff)  
 Winter Cover - Pesticide Management (Drift)  
 Nutrient Management - Surface Nitrogen Loss  
 Nutrient Management - Subsurface Nitrogen Loss  
 Nutrient Management - Surface Phosphorus Loss  
 Nutrient Management - Subsurface Phosphorus Loss

The Aquatic Habitat, Terrestrial Habitat, IPM, WINPST, Conservation Practices and Range Health Assessment tabs are added.



Navigate through the assessment by clicking on the appropriate tab or by clicking on the **Roadmap** button and choosing the appropriate assessment.



## Range Health Assessment Overview

The Range Health Assessment (RHA) is completed outside of Resource Stewardship. Guidance on which ecological site descriptions (ESDs) and reference worksheets to use, as well as directions for entering the RHA Attribute scores in RS, should be provided by the NRCS State Rangeland Management Specialist.

## Range Health Assessment Walk-Through

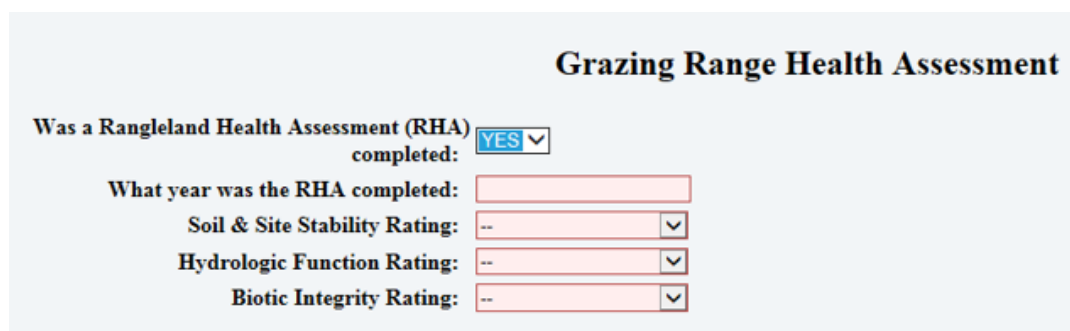
1. Click on the **Range Health Assessment** tab or select Range Health Assessment in the **Roadmap**.
2. Answer the first question: **Was a Rangeland Health Assessment (RHA) completed?** If answer is No, then Range Health is calculated from the other information entered in Resource Stewardship.



**Grazing Range Health Assessment**

Was a Rangeland Health Assessment (RHA) completed:

If answer is Yes, then answer the following questions. Hovering over the questions in Resource Stewardship provides additional information about what is being asked (i.e. The RHA must have been completed after 2008).



**Grazing Range Health Assessment**

Was a Rangeland Health Assessment (RHA) completed:

What year was the RHA completed:

Soil & Site Stability Rating:

Hydrologic Function Rating:

Biotic Integrity Rating:

**Was a Rangeland Health Assessment (RHA) completed:** Yes/No

**What year was the RHA completed:** Enter 4 digit year that assessment was completed (must be after 2008)

**Soil & Site Stability Rating:** Select answer from drop-down (None to slight, slight to moderate, moderate to extreme, extreme to total)

**Hydrologic Function Rating:** Select answer from drop-down (None to slight, slight to moderate, moderate to extreme, extreme to total)





**Biotic Integrity Rating:** Select answer from drop-down (None to slight, slight to moderate, moderate to extreme, extreme to total)

3. Click **Save**.

Management Points are returned for the following:


Rangeland Health Assessment



## IPM Overview

The interpretation of “Integrated Pest Management (IPM) Plan” for Pasture and Range evaluations in Resource Stewardship simply refers to any type of pest management plan, not necessarily an NRCS-developed IPM Plan like Crop Resource Stewardship Evaluations require. If the producer has a basic plan/approach for applying pesticides on the site, credit will be given for having an “IPM plan” for purposes of Resource Stewardship on grazing lands.

## IPM Walk-Through

1. Click the Integrated Pest Management (IPM) tab or select IPM in the **Roadmap** .
2. Answer Yes/No to **Are Pesticides applied to this PLU**. If No, skip the remaining IPM questions. If Yes, answer the following questions.

### Grazing Pesticide Management

Online Help: Go to [IPM Help](#)

Note: All fields are required unless otherwise noted.

Are Pesticides applied to this PLU:

1. Do you follow a current pest management plan that documents how expected weeds, insects, diseases and other pests will be monitored and how new pests will be evaluated?
2. Do you routinely apply pesticides (herbicides, insecticides, fungicides, etc.) on a set schedule without monitoring pest pressure?
3. Do you apply the same pesticides the same way each year based primarily on what has been effective in the past without trying to manage pest resistance?
4. Does your pest management plan identify which pest suppression techniques will be considered for each pest and how these techniques will be utilized to delay the onset of pest resistance?
5. Do you carefully target pest suppression to just the areas that need it based on scouting?
6. Do you utilize pest suppression techniques that will have less impact on off-site natural resources, including nearby drinking water sources and terrestrial/aquatic wildlife habitats?
7. Do you monitor and document environmental conditions at the site level to guide your scouting and pesticide application decisions?
8. To reduce the need for pest suppression, does your plan utilize pest prevention and avoidance techniques?
9. Do you utilize cultural, mechanical or biological suppression techniques (including prescribed grazing) to reduce the need for higher hazard pesticides?
10. Do you utilize intensive rotational grazing to maintain forage vigor that prevents and avoids pests so effectively that routine pest suppression is NOT necessary?



- 1. Do you follow a current pest management plan that documents how expected weeds, insects, diseases, and other pests will be monitored and how new pests will be evaluated?: Yes/No**

If No, skip the remaining IPM questions. If Yes, answer the following questions.

Note: The pest management plan should be less than 3 years old and include monitoring plans and pest suppression decision criteria (action thresholds) for all expected weeds, insects, and diseases, and other pests.

- 2. Do you routinely apply pesticides (herbicides, insecticides, fungicides, etc.) on a set schedule without monitoring pest pressure?: Yes/No**

Note: This does not include a single pesticide application ahead of time to help manage a universal pest, like treating seeds with a fungicide to help prevent soil-borne diseases.

- 3. Do you apply the same pesticides the same way each year based primarily on what has been effective in the past without trying to manage pest resistance?: Yes/No**

Note: This includes using the same or similar pesticide chemistry year after year without rotating active ingredient mode of action.

- 4. Does your pest management plan identify which pest suppression techniques will be considered for each best and how these techniques will be utilized to delay the onset of pest resistance?: Yes/No**

Note: This includes a list of all probable pest suppression techniques (synthetic pesticides, organic pesticides, biological/mechanical/cultural controls, etc.) that will be considered for each pest and how different suppression techniques will be rotated to manage pest resistance.

- 5. Do you carefully target pest suppression to just the areas that needs it based on scouting?: Yes/No**

Note: Based on scouting, economic injury thresholds, and other IPM principles that are specific to a particular grazing system and its pests. Prescribed pest suppression techniques are only utilized when and where they are absolutely necessary.

- 6. Do you utilize pest suppression techniques that will have less impact on off-site natural resources, including nearby drinking water sources and terrestrial/aquatic wildlife habitats: Yes/No**



Note: This includes pest management systems that preferentially utilize things such as pesticides with lower WINPST soil/pesticide hazard ratings, pesticides with less impact on pollinator, and reduced tillage for weed control to limit the potential for sediment loss.

**7. Do you monitor and document environmental conditions at the site level to guide your scouting and pesticide application decisions?: Yes/No**

Note: This includes monitoring temperature, rainfall, relative humidity, and wind speed at the site level as well as monitoring the weather forecast so pesticide applications can be timed to minimize the potential for offsite losses via wind and water.

**8. To reduce the need for pest suppression, does your plan utilize pest prevention and avoidance techniques?: Yes/No**

Note: Pest prevention and avoidance techniques include managing forage to prevent weed establishment, using pest-free seeds, using pest resistance varieties, cleaning tillage and harvesting equipment between sites, and eliminating alternate hosts for insect pests or disease organisms.

**9. Do you utilize cultural, mechanical, or biological suppression techniques (including prescribed grazing) to reduce the need for higher-hazard pesticides?: Yes/No**

Note: This includes pest management systems that preferentially substitute cultural, mechanical, or biological suppression techniques (including prescribed grazing) in place of synthetic or organic pesticides to reduce pesticide use. When pesticides are needed, those with lower WINPST soil/pesticide hazard ratings are preferred.

**10. Do you utilize intensive rotational grazing to maintain forage vigor that prevents and avoids pests so effectively that routine pest suppression is NOT necessary?: Yes/No**

Note: This is a high level management system that is difficult to achieve. It relies on very careful management to prevent and avoid pests so effectively that routine pest suppression (including synthetic or organic pesticide use and soil disturbing tillage) is not necessary.

**3. Click **Save**.**

Management Points are displayed for the following:

- IPM Pesticide Management (Adsorbed Runoff)
- IPM Pesticide Management (Drift)
- IPM Pesticide management (Leaching)
- IPM Pesticide Management (Solution Runoff)




## WINPST Online Overview

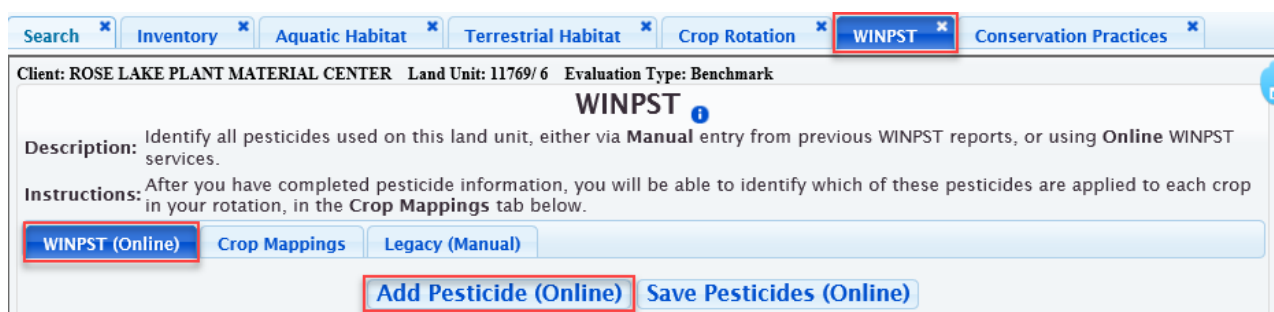
WINPST is an environmental risk screening tool for pesticides. It can be used to evaluate potential pesticides that move with water or eroded soil/organic matter and affect non-targeted organisms.

WINPST data that was captured in Resource Stewardship prior to September 2017 can be found in the Legacy (Manual) tab. The Legacy (Manual) tab also allows the manual entry of WINPST data captured outside of Resource Stewardship.

For Crop Evaluations, all probable pesticides should be selected in WINPST for each crop in the rotation. The same pesticide may be used differently on the same crop at different times, so a given pesticide may need to be selected in WINPST more than once with different application parameters, even when WINPST reports are developed for each crop.

## WINPST Online Walk-Through

1. Select the **WINPST** tab or select WINPST on the **Roadmap** .
2. Select **WINPST (Online)**
3. Click **Add Pesticide (Online)** for each pesticide you want to search for and add.



4. Search for the pesticides in the EPA database and click on it to select it.

Enter all or part of a pesticide product name. Users can also enter a company or product code (or both). A complete EPA registration number for the company and/or product code must be entered (entering 52 will not match products with the code 523-445).



**Find a Pesticide**

Search by one or both of the following:

**Pesticide Product Name:**  **EPA Reg. No.**  -   
company product

☐ Exact Match

Incomplete text may be specified for the product name; all pesticides containing the string will be matched. **Search** EPA Registration numbers allow up to 6 digits in the company field, up to 5 digits in the product field.

The below example shows the search results of a partial match of a pesticide product name.

**Find a Pesticide**

Search by one or both of the following:

**Pesticide Product Name:**  **EPA Reg. No.**  -   
company product

☐ Exact Match

Incomplete text may be specified for the product name; all pesticides containing the string will be matched. **Search** EPA Registration numbers allow up to 6 digits in the company field, up to 5 digits in the product field.

**Search Results:** Select a pesticide to view ingredients and set application details  
 (5 results returned)

EPA Reg. No.	Pesticide ProductName
264-516	ALLETTE WDG FUNGICIDE
432-890	ALLETTE WDG BRAND FUNGICIDE
432-894	CHIPCO ALLETTE WSP BRAND FUNGICIDE
432-897	ALLETTE HG BRAND FUNGICIDE
432-897	MONTEREY ALLETTE

Page 1 of 1 Found: 5

The below example shows the search results for the exact match of a pesticide product name (in general, fewer results will be returned when **Exact Match** is selected for the search).





**Find a Pesticide**

Search by one or both of the following:

**Pesticide Product Name:**  **EPA Reg. No.**  -

☒ **Exact Match**  
 Incomplete text may be specified for the product name; all pesticides containing the string will be matched.

**Search** EPA Registration numbers allow up to 6 digits in the company field, up to 5 digits in the product field.

**Search Results:** Select a pesticide to view ingredients and set application details  
 (1 results returned)

EPA Reg. No.	Pesticide ProductName
264-S16	ALIETTE WDG FUNGICIDE

Page 1 of 1 Found: 1

The below example shows the results of a complete match (company 3-digit number and product 3-digit number) of an EPA registration number. Note that multiple products can be returned for the same registration number.

**Find a Pesticide**

Search by one or both of the following:

**Pesticide Product Name:**  **EPA Reg. No.**  -

☒ **Exact Match**  
 Incomplete text may be specified for the product name; all pesticides containing the string will be matched.

**Search** EPA Registration numbers allow up to 6 digits in the company field, up to 5 digits in the product field.

**Search Results:** Select a pesticide to view ingredients and set application details  
 (2 results returned)

EPA Reg. No.	Pesticide ProductName
432-890	ALIETTE WDG BRAND FUNGICIDE
432-890	LESCO PRODIGY SIGNATURE

Page 1 of 1 Found: 2

The below example shows the results for a company match by EPA registration number (in general, more results will be returned if a 3-digit product number is not also included in the search).



**Find a Pesticide**

Search by one or both of the following:

**Pesticide Product Name:**  **EPA Reg. No.**  432 -  company product

☐ Exact Match

Incomplete text may be specified for the product name; all pesticides containing the string will be matched. **Search** EPA Registration numbers allow up to 6 digits in the company field, up to 5 digits in the product field.

**Search Results:** Select a pesticide to view ingredients and set application details  
 (Too many search results found. Only the first 188 results are shown. If you can't find the desired pesticide in the displayed list, consider narrowing your search criteria.)

EPA Reg. No.	Pesticide ProductName
432-757	TRIBUTE II XL TERMITICIDE/INSECTICIDE CONCENTRATE
432-763	K-OTHRINE SC INSECTICIDE
432-772	K-OTHRINE DUST INSECTICIDE
432-796	AQUA-PERMANONE
432-811	INTERCEPT LAWN & ORNAMENTAL INSECT CONTROL
432-823	DELTA 920 DUST INSECTICIDE
432-824	DELTA GRANULAR
432-832	DELTA WETTTABLE POWDER
432-834	DELTA GARD T&O 5 SC INSECTICIDE
432-834	DELTA GARD T&O 5SC INSECTICIDE

Page 1 of 19 Found: 188

5. Select the **App Area**, **App Method**, and **App Rate** details for each pesticide.

1. ALIETTE WD 2. BEST GREEN

**BEST GREENING SYSTEMS WEED AND FEED 228-412**

\*Application Rate may vary by ingredient; Area and Method are same across ingredients

Active Ingredient	PC Code	PC Percent	App Area	App Method	App Rate
Mecoprop-P	129046	0.319	Broadcast	Surface Applied	Standard
2,4-D, 2-ethylhexyl ester	030063	1.196	Broadcast	Surface Applied	Standard
Dicamba	029801	0.080	Broadcast	Surface Applied	Standard
2,4-Dichlorophenoxyacetic acid	030001	0.162	Broadcast	Surface Applied	Standard

\*After setting Application details, select Get Hazard Ratings

**Get Hazard Ratings**

6. Click **Get Hazard Ratings** and click **Save Pesticides (Online)** for each Pesticide tab added. (Repeat Steps 1 -6 for each additional pesticide.)

**Add Pesticide (Online)** **Save Pesticides (Online)**

1. ALIETTE WD 2. BEST GREEN

**BEST GREENING SYSTEMS WEED AND FEED 228-412**

\*Application Rate may vary by ingredient; Area and Method are same across ingredients

Active Ingredient	PC Code	PC Percent	App Area	App Method	App Rate
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2,4-D, 2-ethylhexyl ester	030063	1.196	Broadcast	Surface Applied	Standard
Dicamba	029801	0.080	Broadcast	Surface Applied	Standard
2,4-Dichlorophenoxyacetic acid	030001	0.162	Broadcast	Surface Applied	Standard

\*After setting Application details, select Get Hazard Ratings

**Get Hazard Ratings**



Note: The application rate can vary between active ingredients. While active ingredient hazard ratings are shown, only the pesticide product level ratings are used in Resource Stewardship.

Management Points are returned for the following:

WINPST – Pesticide Management (Leaching)

WINPST – Pesticide Management (Solution Runoff)

WINPST – Pesticide Management (Adsorbed Runoff)

## WINPST Manual Entry Overview

To enter WINPST data manually, look through all the ratings in the Soil/Pesticide Interaction Hazard Rating Report to identify the worst-case (highest risk) result in each category (Leaching – Human, Leaching - Fish, Solution Runoff – Human, Solution Runoff – Fish, and Adsorbed Runoff – Fish) for all planned pesticides for a crop on all planned land unit (PLU) soils. Circle each of those worst-case ratings on the WINPST report for documentation and then select those five worst case ratings in Resource Stewardship in the WINPST data entry screen. Note that the highest hazard ratings for each of the five categories may be different for different soils and/or different pesticides.

Note: Selecting pesticides in WINPST by product name can sometimes select multiple active ingredients. Each active ingredient has its own unique hazard rating, so a product should be represented by the worst case (highest risk) rating for each category for all the product's active ingredients.

### *Ratings reported in WINPST:*

Very Low (V)

Low (L)

Intermediate (I)

High (H)

eXtra High (X)



## Soil / Pesticide Interaction Loss Potential and Hazard Rating Report

### LEGEND

X -- eXtra high  
H -- High  
I -- Intermediate  
L -- Low  
V -- Very low

#### Conditions that affect ratings:

(none) -- Broadcast application (default); applied to more than 1/2 the field  
b -- Banded application; applied to 1/2 the field or less  
p -- Spot application; applied to 1/10th of the field or less

(none) -- Surface applied (default); applied to the soil surface  
i -- Soil incorporated; with light tillage or irrigation  
f -- Foliar application; directed spray at nearly full crop/weed canopy

(none) -- Standard application rate (default); greater than 1/4 lb/acre  
l -- Low rate of application; 1/10 to 1/4 lb/acre  
<ul> -- Ultra Low rate of application; 1/10 lb/acre or less

m -- There are surface connected macropores (cracks) that go at least 24 inches deep.  
w -- The high water table comes within 24" of the surface during the growing season.  
s -- The field slope is greater than 15%.

<none> -- Default condition for all climates that have rainfall/irrigation after pesticide application  
<dry> -- Exception for arid climates that have a low probability of rainfall and no irrigation after pesticide application

#### SPISP II I-Ratings:

Leaching -- Soil / Pesticide Interaction Leaching Potential  
Solution -- Soil / Pesticide Interaction Solution Runoff Potential  
Adsorbed -- Soil / Pesticide Interaction Adsorbed Runoff Potential


## WINPST Manual Entry Walk-Through (Pasture and Range Example)

This example uses Roundup and Weedmaster.

Pesticide Name	Roundup	Weedmaster
<b>Leaching – Human</b>	Very Low (V)	Very Low (V)
<b>Leaching – Fish</b>	Very Low (V)	Very Low (V)
<b>Solution Runoff – Human</b>	Low (L)	Very Low (V)
<b>Solution Runoff – Human</b>	Low (L)	Low (L)




<b>Adsorbed Runoff – Fish</b>	Low (L)	Very Low (V)
-----------------------------------	---------	--------------

1. Click on the **WINPST** tab or select WINPST on the **Roadmap** .
2. On the **Legacy (Manual)** tab, type the Pesticide Name (this example uses Roundup) and enter the pesticide hazard ratings gathered from the Soil/Pesticide Interaction Hazard Rating Report. Click **Save Pesticides (Manual)** when finished.

WINPST (Online) **Legacy (Manual)**

**Save Pesticides (Manual)**

1. Roundup + 

**WINPST**  
Online Help: Go to [WINPST Help](#)

Note: All fields are required unless otherwise noted.

Pesticide Name: Roundup

Leaching - Human: V


Leaching - Fish: V


Solution - Human: L

Solution - Fish: L

Adsorbed - Fish: L

On the tab showing the first pesticide you entered, click the **Add tab** or **Copy** feature to add additional pesticides. The Copy feature allows users to copy over pesticide information and make any necessary edits to the pesticide name or hazard ratings.

 button."/>

1. Roundup + 

3. On Tab 2, enter the Pesticide Name and Hazard Ratings information for **Weedmaster**. Click **Save Pesticides** when finished.



Save Pesticides (Manual)

1. Roundup + 2. Weedmaster

**WINPST**  
 Online Help: Go to [WINPST Help](#)

**Note:** All fields are required unless otherwise noted.

**Pesticide Name:** Weedmaster

**Leaching - Human:** V ▼

**Leaching - Fish:** V ▼

**Solution - Human:** V ▼

**Solution - Fish:** L ▼

**Adsorbed - Fish:** V ▼

Management Points are returned for the following:

- WINPST – Pesticide Management (Leaching)
- WINPST – Pesticide Management (Solution Runoff)
- WINPST – Pesticide Management (Adsorbed Runoff)






# Conservation Practices Overview

Information for the Conservation Practices and Management Techniques (CPMT) section is gathered from the client. CPMTs can be chosen from the open-ended list in Resource Stewardship based on what has been implemented on the Planned Land Unit (PLU). For Crop evaluations, these CPMTs are identified at the crop rotation level.

**Conservation Practices** represent the initial NRCS Conservation Practices as identified in the Field Office Technical Guide (FOTG).

**Management Techniques** represent conservation activities which may be sub-components of Conservation Practices that help to define the management activity and associated benefits.

## Conservation Practices Walk-Through


- 1. Click the **Conservation Practices** tab or on the **Roadmap** .
- 2. Answer Yes to **Does the PLU have any resident conservation practices which will impact its conservation stewardship** (if applicable).

### Conservation Practices


Online Help: Go to [Conservation Practices Help](#)


**Note:** All fields are required unless otherwise noted.

**Does the PLU have any resident conservation practices which will impact its conservation stewardship:**





Row	Identify which of the PLUs Conservation Practice/Management Techniques impact this particular evaluation
1 	<input type="text"/>

- 3. Enter the conservation practice name or practice number. This example uses **Fence (382)** as the first conservation practice applied. **382** can also be entered for the conservation practice number.

Row	Identify which of the PLUs Conservation Practice/Management Techniques impact this particular evaluation
1 	<input type="text" value="Fence (382)"/>

- 4. To enter another practice, click the **Add Row**  button.

To add, delete or to reorder the rows use the appropriate button. The order of conservation practices has no effect on the results.

-  Add Row
-  Delete Row
-  Move Row Up
-  Move Row Down

5. Repeat steps 3 and 4 for each conservation practice you wish to enter. This example uses **Stream Crossing (578)** and **Watering Facility (614)**.
6. After all practices have been entered, click the **I Have Finished Entering Conservation Practices** radio button and **Save**.

Row		Identify which of the PLUs Conservation Practice/Management Techniques impact this particular evaluation
1	  	Fence (382)
2	   	Stream Crossing (578)
3	  	Watering Facility (614)

☒ **I Have Finished Entering Conservation Practices Data**

[Save Practices](#)

Management Points are returned for the following:

- CPMT – Land Health
- CPMT – Sediment in Surface Water
- CPMT – Sediment in Surface Water
- CPMT – Surface Phosphorus Loss
- CPMT – Subsurface Phosphorus Loss
- CPMT – Surface Nitrogen Loss
- CPMT – Subsurface Nitrogen Loss
- CPMT – Pesticide Management (Leaching)
- CPMT – Pesticide Management (Solution Runoff)
- CPMT – Pesticide Management (Adsorbed Runoff)
- CPMT – Pesticide Management (Drift)




## Aquatic Habitat Overview

This section evaluates aquatic habitat by completing the appropriate aquatic Wildlife Habitat Evaluation Guide (WHEGs). WHEGs are models that depict important relationships between fish and wildlife and their habitats and provide an index of habitat suitability. They 1) simplify the real world, 2) improve understanding, and 3) predict outcomes.

Different WHEGs are available for selection in Resource Stewardship depending on the type of aquatic habitat you are evaluating.

## Aquatic Habitat Walk-Through

1. Click on the **Aquatic Habitat** tab or select Aquatic Habitat on the **Roadmap** .
2. Select the appropriate answer (PLU is part of larger Management Unit or PLU Only) for **Categorize the land applicable to this Habitat information**.

### Aquatic Habitat

Online Help: Go to [Aquatic Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this Habitat information:

Pick an Aquatic Habitat Guide:

PLU is part of larger Management Unit

PLU Only

3. Select an aquatic habitat guide from the selection. If no guide is applicable, then select **Not Applicable**. Note that selecting Not Applicable means there is no such habitat on the PLU (i.e. no water on cropland). This will result in no score for aquatic habitat. Selecting **Not Evaluated** means that habitat concerns may exist, but questions were either unanswered or responses unknown. This will result in a failing score for aquatic habit.



## Aquatic Habitat

Online Help: Go to [Aquatic Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this  
Habitat information:

Pick an Aquatic Habitat Guide:

Required

--

Not Evaluated

Not Applicable

Approved Alternative Guide

Bog Turtle Guide

National Lakes and Ponds Guide

National River Guide

National Stream Guide

National Wetland Guide

Rio Grande Cutthroat Trout

Currently, you can select the following for **Pick an Aquatic Habitat Guide**:

Not Evaluated  
Not Applicable  
Approved Alternative Guide  
Bog Turtle Guide  
National Lakes and Ponds Guide  
National River Guide  
National Stream Guide  
National Wetland Guide  
Rio Grande Cutthroat Trout

4. Select the appropriate answer choices from the drop down for each question for the habitat guide selected and click the **Save** button.



## Aquatic Habitat


Online Help: Go to [Aquatic Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this Habitat information:

Pick an Aquatic Habitat Guide:

### National Stream Guide

1. Hydrologic Alteration :
2. Riparian Zone Quantity :
3. Riparian Zone Quality :
4. Bank Condition :
5. Stream Habitat Complexity :
6. Barriers to Aquatic Habitat Guides Species Movement :

[Save](#)

Note that if an **Approved Alternative Guide** is selected, utilize the guide outside Resource Stewardship and manually enter the information for **Name of Habitat Guide**, **Guide Threshold**, and **Guide Results**.

## Aquatic Habitat

Online Help: Go to [Aquatic Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this Habitat information:

Pick an Aquatic Habitat Guide:

### Approved Alternative Guide

Name of Habitat Guide:

Guide Threshold:

Guide Result:

[Save](#)

The Guide Threshold is 0.5 in most cases. The Guide Result (the client's score calculated based on the WHEG instructions) is typically a result between 0-1.

Management Points are returned for the following: Aquatic Habitats




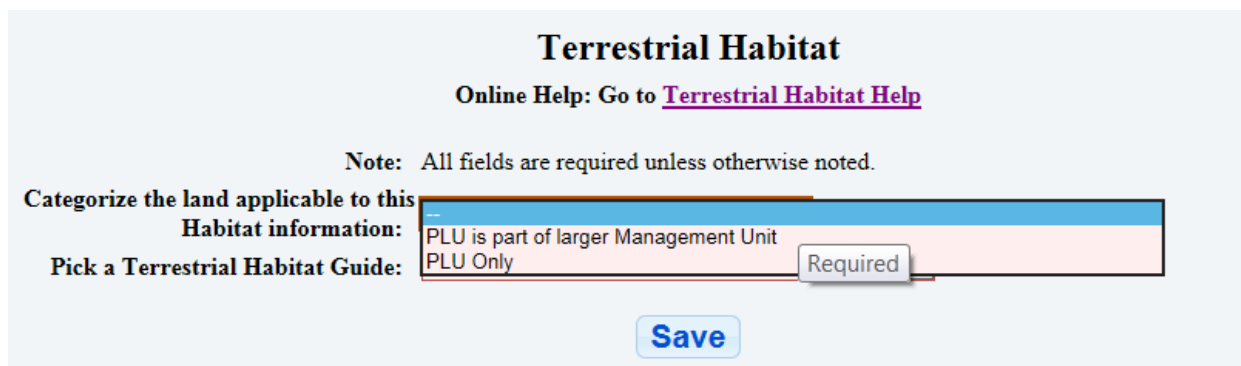
## Terrestrial Habitat Overview

This section of the tool evaluates terrestrial habitat using the appropriate Wildlife Habitat Evaluation Guides (WHEGs). WHEGs are models that depict important relationships between fish and wildlife and their habitats and provide an index of habitat suitability. They 1) simplify the real world, 2) improve understanding, and 3) predict outcomes.

Different guides are available for selection depending on land use being evaluated. In addition, a limited number of Working Lands for Wildlife (WLFW) guides are also available.

## Terrestrial Habitat Walk-Through

1. Click on the **Terrestrial Habitat** tab or select Terrestrial Habitat on the **Roadmap** .
2. Select the appropriate answer (PLU is part of larger Management Unit or PLU Only) for **Categorize the land applicable to this Habitat information**.



The screenshot shows a web form titled "Terrestrial Habitat". Below the title is a link for "Online Help: Go to [Terrestrial Habitat Help](#)". A note states: "Note: All fields are required unless otherwise noted." The form has two main sections. The first section is "Categorize the land applicable to this Habitat information:" with a dropdown menu. The second section is "Pick a Terrestrial Habitat Guide:" with a dropdown menu. The dropdown menu is open, showing two options: "PLU is part of larger Management Unit" and "PLU Only". A "Required" label is next to the "PLU Only" option. Below the dropdowns is a "Save" button.

3. Select a terrestrial habitat guide from the choices available. If no guide is applicable, then select **Not Applicable**. Note that selecting Not Applicable means there is no such habitat on the PLU (i.e. no wildlife on farmstead). This will result in no score for terrestrial habitat. Farmstead and Associated Ag Evaluations have the option to select **Evaluated as part of adjacent land use**. This option will not penalize or improve the score. Selecting **Not Evaluated** means that habitat concerns may exist, but questions were either unanswered or responses unknown. This will result in a failing score for terrestrial habitat.

Available for all Evaluations:

- Not Applicable
- Not Evaluated
- Approved Alternative Guide
- Goldenwinged Warbler AppalachianMtn Guide



Greater Sage Grouse (ND and SD)  
Greater Sage Grouse (WA)  
Greater Sage Grouse (Idaho)  
Lesser Prairie Chicken – Sand Sagebrush  
Lesser Prairie Chicken – Sand Shinnery Oak  
Monarch Butterfly Midwest Guide  
Monarch Butterfly Southern Great Plains Guide  
New England Cottontail  
Southwestern Willow Flycatcher < 6000ft elev Guide  
Southwestern Willow Flycatcher > 6000ft elev Guide

Available for Crop Evaluations:

National Cropland (Flooded) Guide  
National Cropland (Unflooded) Guide  
National Cropland with Hay (Unflooded) Guide  
National Hayland Guide

Available for Range Evaluations:

National Range Guide

Available for Pasture Evaluations:

National Pasture Guide

Available for Forest Evaluations

Forest Guide

Available for Farmstead and Associated Ag Evaluations

Evaluated as part of Adjacent Land Use

4. Select the appropriate answer choices from the drop down for each question for the terrestrial habitat guide selected and click the **Save** button.

**Example**



**Terrestrial Habitat**

Online Help: Go to [Terrestrial Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this Habitat information:

Pick a Terrestrial Habitat Guide:

**Monarch Butterfly Midwest Guide**

1) Plant Community:

2) Insecticide Risk condition:

3) Weed Management Risk Condition:

4) Average milkweed stem density per acre:

5) Average monarch nectaring forb cover within the AA:

6) Average number of monarch nectaring forb-species within the AA:

Note that if an **Approved Alternative Guide** is selected, utilize the guide outside Resource Stewardship and manually enter the information for **Name of Habitat Guide**, **Guide Threshold**, and **Guide Results**.

**Terrestrial Habitat**

Online Help: Go to [Terrestrial Habitat Help](#)

Note: All fields are required unless otherwise noted.

Categorize the land applicable to this Habitat information:

Pick a Terrestrial Habitat Guide:

**Approved Alternative Guide**

Name of Habitat Guide:

Guide Threshold:

Guide Result:

The Guide Threshold is 0.5 in most cases. The Guide Result (the client's score calculated based on the WHEG instructions) is typically a result between 0-1.

Management Points are returned for the following: Terrestrial Habitats





## Additional WHEG Information

Common terms included in WHEGs are described below.

**Non-Cropland Habitat Elements (NCHE):** This includes habitat elements associated with crop fields occurring within the field, such as field borders, odd areas, windbreaks, wetlands, brushy draws, include field borders, odd areas, windbreaks, wetlands, brushy draws, hedgerows, seeps, riparian areas, vegetated ditches, native vegetated communities, rare and declining habitats, and center pivot corners hedgerows, seeps, riparian areas, vegetated ditches, native vegetated communities, rare and declining habitats, and center pivot corners. It also includes habitat elements immediately adjacent to the crop fields, such as CRP (Conservation Reserve Program), woodlands, and riparian areas. The evaluated NCHE must be under the control of the applicant and be  $\geq 30$  feet wide and  $\geq 0.1$  acre. NCHE must meet state quality standards for wildlife habitat as defined by the NRCS State Biologist with guidance from the State Wildlife Agency.

**Pasture and Non-Pasture Habitat Elements (NPHE):** This includes non-pastureland cover, such as field borders, odd areas, windbreaks, wetlands, brushy draws, hedgerows, seeps, riparian areas, and center pivot corners that occur within the field, or NPHE that occurs immediately adjacent to the pasture, such as CRP, woodlands, and riparian areas. The evaluated NPHE must be under the control of the applicant and be  $\geq 30$  feet wide and  $\geq 0.1$  acre. NPHE includes paddocks not grazed during the nesting season. NPHE must meet state quality standards for wildlife habitat as defined by the NRCS State Biologist with guidance from the State Wildlife Agency.

**Range:** This refers to rangeland habitats on which the climax or potential plant cover is composed principally of native grasses, grass-like plants, forbs, or shrubs suitable for grazing and browsing, and introduced forage species that are managed like rangeland.



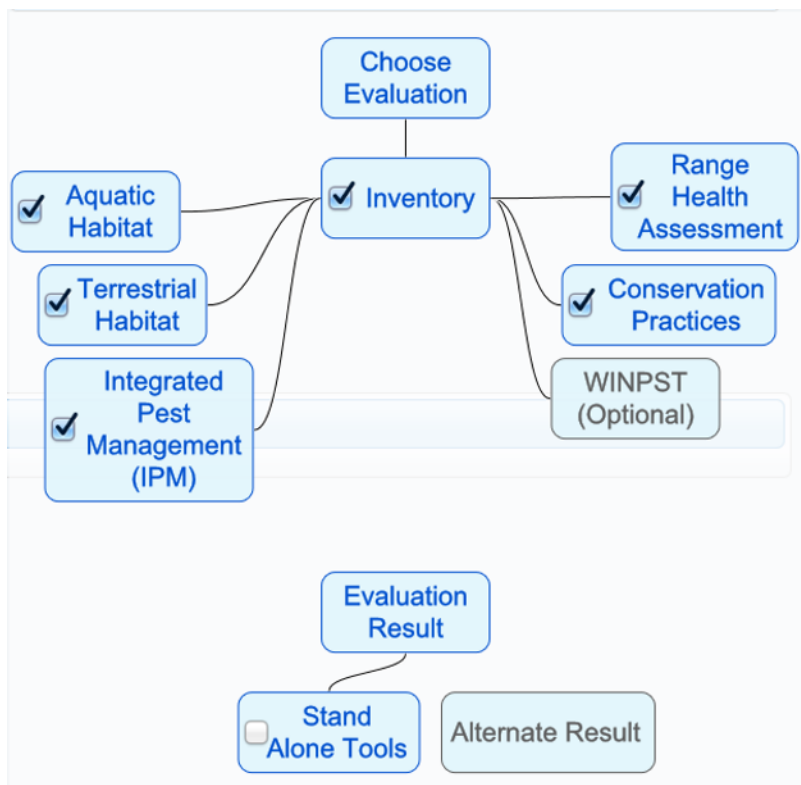
## Range Evaluation Results Overview

Evaluation results identify the condition at the site. Resource Stewardship can also evaluate alternative management scenarios or planned conservation activities to improve resource stewardship. Within RS, most major resource concerns are made up of sub-concerns. The user has the option to evaluate each of those sub-concerns individually and determine their management level compared to the stewardship threshold.

## Range Evaluation Results Walk-Through

1. Click on the **Roadmap**  button and select **Evaluation Result**.

Note: If **Evaluation Result** is not active, go through all the tabs to ensure that all information is entered and saved.



Note: See the [Stand Alone Tools help webpage](#) for help on how to complete the **Stand Alone Tools** section (if needed).

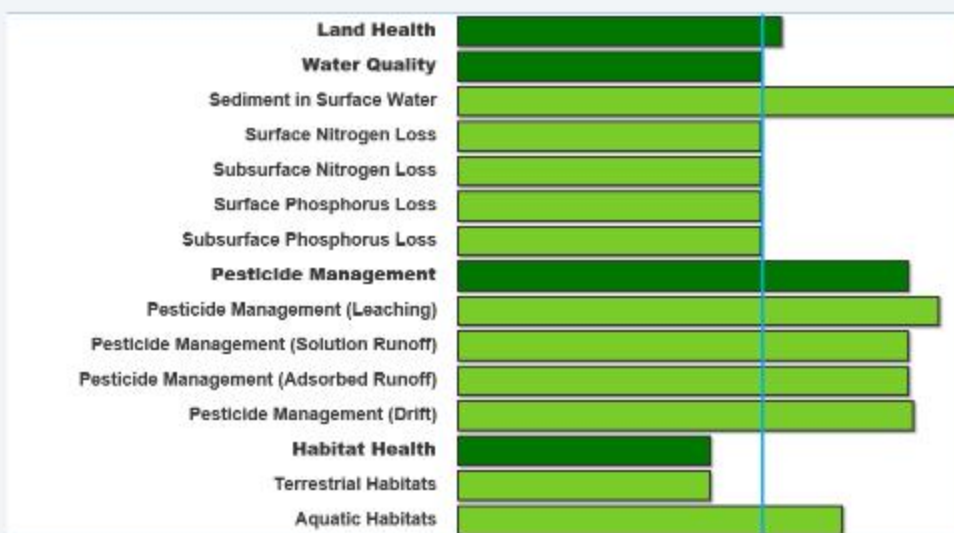
Below is an example Evaluation Report.



## Rangeland Stewardship Objectives



## Rangeland Stewardship Achievement



### Conservation Practices and Management Techniques

- Brush Management (314)
- Fence (382)
- Livestock Pipeline (516)
- Pumping Plant (533)

### Evaluation Details

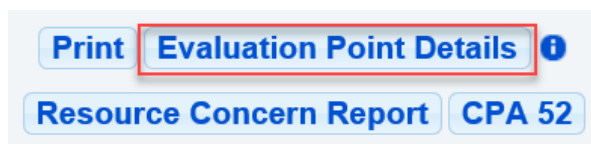
- Terrestrial Habitat Guide(s): National Range Guide
- Aquatic Habitat Guide(s): National Stream Guide
- WINPST entered: Yes

The Evaluation Report can be printed by clicking the **Print** button at the bottom of the page.



### Evaluation Point Details

1. To view the evaluation point details, click **Evaluation Point Details** at the bottom of the Evaluation Result report. This page provides the numerical scores and thresholds for the Management Points in the evaluation.

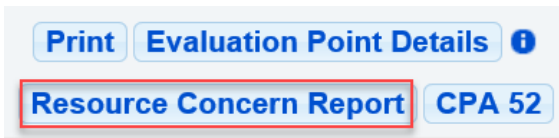


### Resource Concern Report

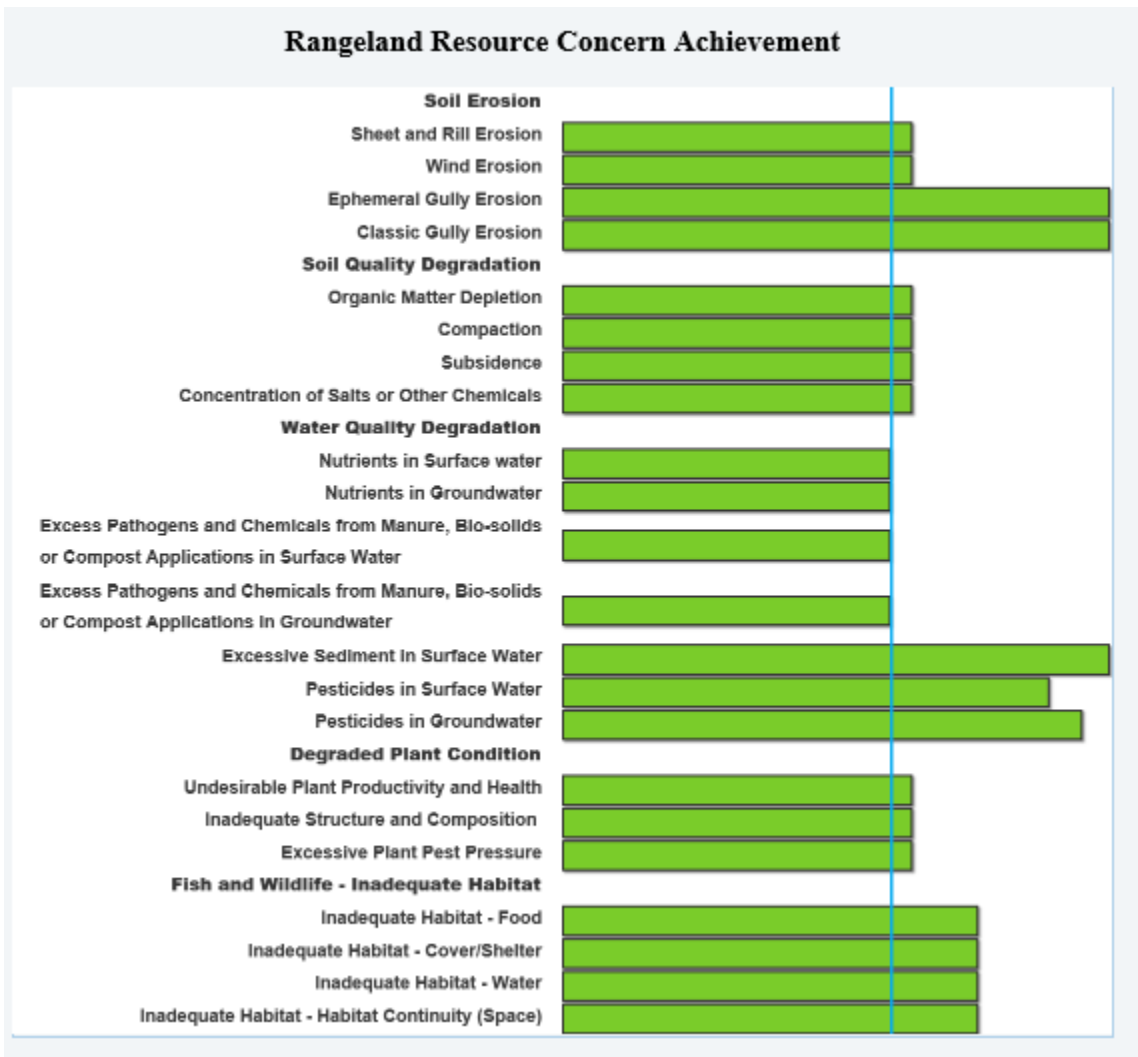
Resource Stewardship evaluation results (Standard or Alternate) provide a report that maps the RS result areas to the NRCS Resource Concerns. (Note: RS does not currently provide mappings to all possible Resource Concerns.)



1. Click **Resource Concern Report** at the bottom of the Evaluation Results page.



The Resource Concerns represented vary by land use evaluation type. Resource Concerns are mapped by point detail to the RS final Evaluation Results.

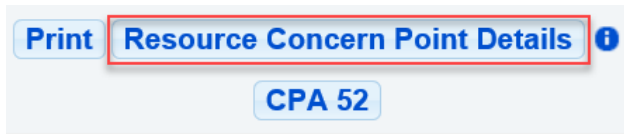


Unlike the final Evaluation Report, there are no summary bars rolling up the Resource Concern sets.



The bottom of the Resource Concern Report has a button to view the Resource Concern Point Details.

## 2. Click **Resource Concern Point Details**.



Multiple RS result areas may compete for the representation of a single Resource Concern and multiple Resource Concerns may be mapped from multiple Resource Stewardship result areas (example below).

Resource Concern Point Details			
Resource Concern	Benchmark 2017 Resource Concern Score	Resource Stewardship Key Indicator	Benchmark 2017 Key Indicator Points
Soil Erosion	--	--	--
Sheet and Rill Erosion	64	Land Health	64
Wind Erosion	64	Land Health	64
Soil Quality Degradation	--	--	--
Organic Matter Depletion	64	Land Health	64
Compaction	64	Land Health	64
Subsidence	64	Land Health	64
Concentration of Salts or Other Chemicals	64	Land Health	64
Water Quality Degradation	--	--	--
Nutrients in Surface water	60	Surface Phosphorus Loss	60
Nutrients in Surface water	60	Surface Nitrogen Loss	60
Nutrients in Groundwater	60	Subsurface Nitrogen Loss	60
Nutrients in Groundwater	60	Subsurface Phosphorus Loss	60
Excess Pathogens and Chemicals from Manure, Bio-solids or Com post Applications in Surface Water	60	Surface Phosphorus Loss	60
Excess Pathogens and Chemicals from Manure, Bio-solids or Com post Applications in Surface Water	60	Surface Nitrogen Loss	60
Excess Pathogens and Chemicals from Manure, Bio-solids or Com post Applications in Groundwater	60	Subsurface Nitrogen Loss	60
Excess Pathogens and Chemicals from Manure, Bio-solids or Com post Applications in Groundwater	60	Subsurface Phosphorus Loss	60
Excessive Sediment in Surface Water	100	Sediment in Surface Water	100
Pesticides in Surface Water	89	Pesticide Management (Solution Runoff)	89
Pesticides in Surface Water	89	Pesticide Management (Adsorbed Runoff)	89
Pesticides in Groundwater	95	Pesticide Management (Leaching)	95
Degraded Plant Condition	--	--	--
Undesirable Plant Productivity and Health	64	Land Health	64
Inadequate Structure and Composition	64	Land Health	64
Excessive Plant Pest Pressure	64	Land Health	64
Fish and Wildlife - Inadequate Habitat	--	--	--
Inadequate Habitat - Food	76	Terrestrial Habitats	50
Inadequate Habitat - Food	76	Aquatic Habitats	76
Inadequate Habitat - Cover/Shelter	76	Terrestrial Habitats	50
Inadequate Habitat - Cover/Shelter	76	Aquatic Habitats	76
Inadequate Habitat - Water	76	Terrestrial Habitats	50
Inadequate Habitat - Water	76	Aquatic Habitats	76
Inadequate Habitat - Habitat Continuity (Space)	76	Terrestrial Habitats	50
Inadequate Habitat - Habitat Continuity (Space)	76	Aquatic Habitats	76

## CPA-52

The CPA-52 is the environmental evaluation document utilized by NRCS to ensure compliance with the National Environmental Policy Act (NEPA). The user is responsible for choosing the RS land unit evaluations



which properly associate to applications/agreements, and the subsequent upload of the CPA-52 into DMS. Not all Resource Concerns are mapped and included in the RS-generated CPA-52. Therefore, the user is expected to complete the document started by RS.

- 1. Click **CPA 52** at the bottom of the Evaluation Results page.

Print

Evaluation Point Details

Resource Concern Report

CPA 52

Resource Stewardship will generate a starter CPA-52 based on a template spreadsheet. Answers for each resource concern are based on whether the result area in RS achieved the threshold.

Benchmark Evaluation

Example of a result area from a Benchmark Evaluation that did not achieve the threshold, and the corresponding answer to be populated on the CPA-52.

Wind Erosion

F. Resource Concerns and Existing/ Benchmark Conditions (Analyze and record the existing/benchmark conditions for each identified concern)	I. Effects of Alternatives					
	No Action		Alternative 1		Alternative 2	
	Amount, Status, Description <i>(Document both short and long term impacts)</i>	if does NOT meet PC	Amount, Status, Description <i>(Document both short and long term impacts)</i>	if does NOT meet PC	Amount, Status, Description <i>(Document both short and long term impacts)</i>	if does NOT meet PC
SOIL: EROSION						
Wind Erosion		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
No land unit(s) are at planning criteria for this resource concerns as evaluated by RSET, see RSE report for details		NOT meet PC		NOT meet PC		NOT meet PC

Benchmark Evaluation Compared to a Planned/Alternative Scenario Evaluation

Example of a result area in RS from a Benchmark Evaluation that did not achieve the threshold, compared to a Planned/Alternative Scenario Evaluation where chosen actions improved the result area to exceed the threshold.



Wind Erosion						
F. Resource Concerns and Existing/ Benchmark Conditions (Analyze and record the existing/benchmark conditions for each identified concern)	I. Effects of Alternatives					
	No Action		Alternative 1		Alternative 2	
	Amount, Status, Description (Document both short and long term impacts)	✓ if does NOT meet PC	Amount, Status, Description (Document both short and long term impacts)	✓ if does NOT meet PC	Amount, Status, Description (Document both short and long term impacts)	✓ if does NOT meet PC
<b>SOIL: EROSION</b> Wind Erosion		<input type="checkbox"/>	Chosen Action(s), compared to the benchmark, improve this resource concern to the planning criteria as evaluated by RSET, see RSE report for details	<input type="checkbox"/>		<input type="checkbox"/>
No land unit(s) are at planning criteria for this resource concerns as evaluated by RSET, see RSE report for details		NOT meet PC		NOT meet PC		NOT meet PC

## Planned Evaluation/Alternative Scenario Compared to Planned Evaluation

Example of a comparison between two Planned/Alternative Scenario Evaluations where one evaluation achieved the threshold and the other did not, and the corresponding answers to be populated on the CPA-52.

Wind Erosion						
F. Resource Concerns and Existing/ Benchmark Conditions (Analyze and record the existing/benchmark conditions for each identified concern)	I. Effects of Alternatives					
	No Action		Alternative 1		Alternative 2	
	Amount, Status, Description (Document both short and long term impacts)	✓ if does NOT meet PC	Amount, Status, Description (Document both short and long term impacts)	✓ if does NOT meet PC	Amount, Status, Description (Document both short and long term impacts)	✓ if does NOT meet PC
<b>SOIL: EROSION</b> Wind Erosion		<input type="checkbox"/>	All Evaluated land units are at/ or above the planning criteria for this resource concern as evaluated by RSET, See RSE report for details	<input type="checkbox"/>	No land unit(s) are at planning criteria for this resource concerns as evaluated by RSET, see RSE report for details	<input type="checkbox"/>
		NOT meet PC		NOT meet PC		NOT meet PC

## Comparing Two Evaluations


Comparing evaluations on the same PLU is useful to see how changes to the management system can improve or hinder stewardship. By comparing evaluations and identifying areas for improvement, land managers can better improve their resource stewardship and conservation. The evaluation results section allows the user to directly compare two different evaluations on the same report.


To compare evaluations on the same PLU, you must have two complete evaluations on the same land unit. To do this you can copy an evaluation, and then edit the copied version to create an alternative scenario. (See [here](#) for assistance [creating a new evaluation](#) and [here](#) for assistance [copying an evaluation](#).) Any number of alternative evaluations or alternative scenarios may be attached to a PLU. Comparisons may be made against the benchmark evaluation or other alternative evaluations.







# Comparing Two Evaluations on the Same Evaluation PLU


- 1. Click **Evaluation Result** in the Roadmap  or select the **Evaluation Result** tab.
- 2. Evaluations available to compare to the current evaluation will be displayed in the Evaluations bar at the top of the Evaluation Results page. Select the evaluation you would like to compare by clicking on it.


Search 


Inventory 

Aquatic Habitat 


Terrestrial Habitat 

IPM 

WINPST 

Conservation Practices 

Range Health Assessment 

**Evaluation Result **

Compare To Evaluation:

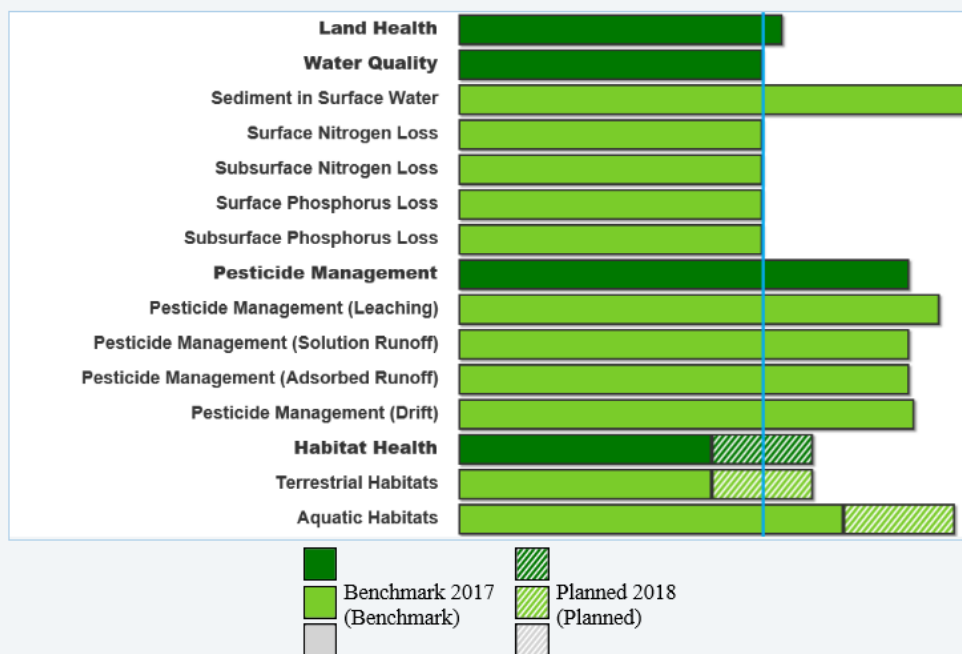
Status	Result Type	Name	Land Use	Acres	Benchmark	Date	Id
<input checked="" type="checkbox"/>	Standard	Planned 2018	Range	--	NO	09/26/2018	

Page 1 of 1Found: 1

The current evaluation will be compared to the selected alternative scenario evaluation. The alternative scenario evaluation will show up on the bar chart as shaded.



## Rangeland Stewardship Achievement



## Conservation Practices and Management Techniques

### Benchmark 2017

- Brush Management (314)
- Fence (382)
- Livestock Pipeline (516)
- Pumping Plant (533)

### Planned 2018

- Brush Management (314)
- Fence (382)
- Livestock Pipeline (516)
- Pumping Plant (533)

## Interpreting the Evaluation Results

As shown in the graphic above, the solid bars represent the current/benchmark state. Each of the key indicators are rolled up into five main categories (Soil Management, Water Quality, Pesticide Management, Water Quantity, Air Quality, and Habitat Health), represented by the darker solid bars. When the current/benchmark state is compared to an alternative/planned scenario, the alternative/planned scenario is represented by the shaded bars. The vertical blue line represents the threshold value for each of the different key indicators. To pass stewardship, each result area must meet or be to the right of the blue bar.



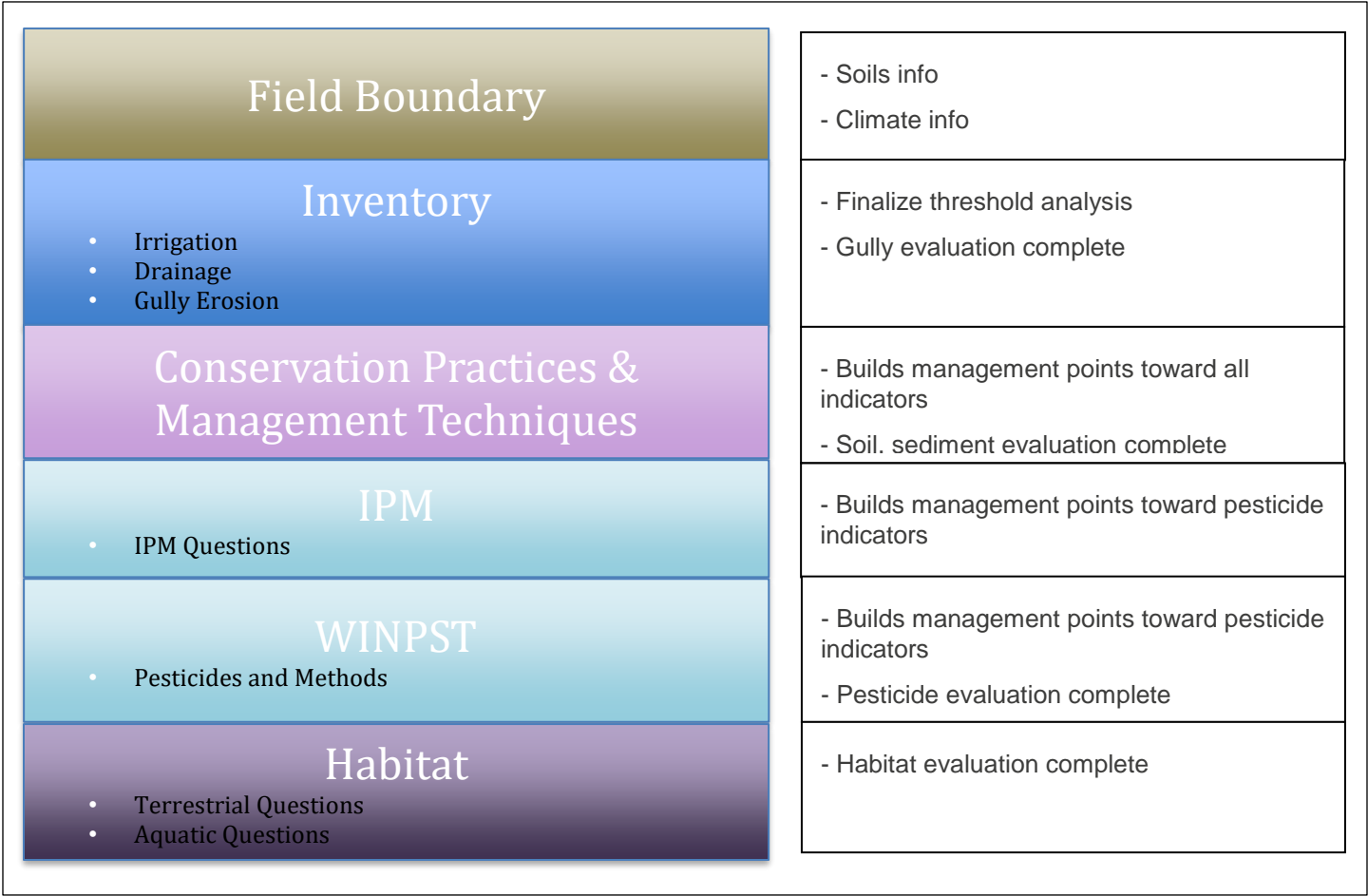
## Appendix A: Acronyms

CDSI	Conservation Delivery Streamlining Initiative
CEAP	Conservation Effects and Assessment Program
CLU	Common Land Unit
CPMT	Conservation Practices and Management Technique
CST	Customer Service Toolkit
ESD	Ecological Site Description
FIRI	Farm Irrigation Rating Index
FOTG	Field Office Technical Guide
FSA	Farm Service Agency
HUC	Hydrologic Unit Code
IET	Integrated Erosion Tool
LGU	Land Grant University
NM	Nutrient Management
NRCS	Natural Resources Conservation Service
RS	Resource Stewardship
RSE	Resource Stewardship Evaluation
RSET	Resource Stewardship Evaluation Tool
PLU	Planned Land Unit
PSMT	Pre-sidedress Nitrogen Test
RUSLE2	Revised Universal Soil Loss Equation
SSURGO	Soil Survey Geographic database
STEP	Stewardship Tool for Environmental Performance
T	Soil Loss Tolerance Level
T&E	Threatened and Endangered (species)
WEPS	Wind Erosion Prediction System
WHEG	Wildlife Habitat Evaluation Guide
WINPST	Windows Pesticide Screening Tool
WLFW	Working Lands for Wildlife
WQM	Water Quality Management Services




# Appendix B: Resource Stewardship Inventory Flow

The Resource Stewardship Inventory Flow provides an overview of what information is captured in the inventory from beginning to end. The field boundary, inventory, integrated pest management (IPM), nutrient management, terrestrial habitat, and irrigation information is most critical to capture. You can select “No” or “Not Applicable” for conservation practices and aquatic habitat. However, completing those sections (if applicable) offers a more robust and thorough evaluation.



# Appendix C: Usage Detail Report and Hydrologic Unit Codes

Usage reports are available in RS. Access to reporting is controlled by NRCS zRoles (an RS reporting role in zRoles is required). Users with access can constrain reports by date, land use, operation type, subsets of their jurisdiction, and hydrologic unit codes (HUCs).

 **RESOURCE STEWARDSHIP** A CDSI Solution

Session Expires in 20 Minutes

Search

Usage Detail Report

Inventory

Aquatic Habitat

Terrestrial Habitat

Crop Rotation

About

Logout

Evaluation Detail Filters

From Date:

To Date:

Select Land Use/Operation Type Filter:

--

When no Land Use or Operation Type filter is selected, then All Land Uses and All Operation Types will be returned in the report.

State and County Filters

Select the State(s) and County(s) to filter the results in the report OR leave the parameters blank to return data for all the evaluations based on your jurisdiction permissions.

State:

--

County:

--

HUC Filters

If a HUC is selected that is outside of your jurisdiction then no results will be returned for that HUC in the report.

HUC:

HUC Selection

Download Report

A hydrological code or hydrologic unit code is a sequence of numbers or letters that identify a hydrological feature like a river, river reach, lake, or area like a drainage basin (also called watershed or catchment). HUCs are available as a geospatial layer in NRT.

*Boundary map of an HUC feature*



Any of the 6 HUC levels may be specified in RS (region, subregion, basin, subbasin, watershed, and subwatershed). The table below shows examples of these 6 different levels and their HUCs.

Name	Level	Digits	Average size (square miles)	Number of HUs (approximate)	Example name	Example code (HUC)
Region	1	2	177,560	21	Pacific Northwest	17
Subregion	2	4	16,800	222	Lower Snake	1706
Basin	3	6	10,596	370	Lower Snake	170601
Subbasin	4	8	700	2,200	Imnaha River	17060102
Watershed	5	10	227 (40,000–250,000 acres)	22,000	Upper Imnaha River	1706010201
Subwatershed	6	12	40 (10,000–40,000 acres)	160,000	South Fork Imnaha River	170601020101

HUC data is visible to RS users in the following locations: the PLU inventory page, evaluation report headers, and the HUC column on the usage detail report.

PLU Inventory

PLU Inventory

Online Help: Go to [Crop Inventory Help](#)

Note: All fields are required unless otherwise noted.

Level: 

National Resource Stewardship

ri: 

15

 in.

di: 

YES

Guide: 

YES

ation:

els): c. Banks are moderately stable, protected by roots of natural vegetation, wood, or rock or a combination of materials. Limited number

Save

Hydrologic Unit Codes

HUC	Region	Sub Region	Basin	Sub Basin	Watershed	Sub Watershed
050500021002	Ohio Region	Kanawha	Kanawha	Middle New	Bluestone Lake-New River	Lick Creek-Bluestone Lake

## Evaluation Report Headers

**Evaluation:** CW Bench Crop **Evaluation Date:** 06/11/2018  
**Benchmark:** YES **Grazed:** YES **Result Type:** Standard  
**Land Unit:**  **Land Use:** Crop **HUC:** 050500021002  
**State:**  **County:**   
**Client:**   
**Planner:**   
**Planner Contact:** USDA HEADQUARTERS FACILITY (105198)  
1400 INDEPENDENCE AVE SW, WASHINGTON, DC 20250-0002  
(202) 720-4297

## HUC Column on the Usage Detail report

Resource Concern Point Details ☒ Usage Detail Report ☒

**From Date:** 05/01/2018 **To Date:** 06/01/2018  
**Select Land Use/Operation Type Filter:** Land Use

**Land Use:** ☐ Associated Ag Land ☒ Forest  
☒ Crop ☐ Pasture  
☐ Farmstead ☐ Range

**State and County Filters**

Select the State(s) and County(s) to filter the results in the report OR leave the parameters blank to return data for all the evaluations based on your jurisdiction permissions.

**State:** Wyoming  **County:** --

**Selected State/County Filters**

State	County	
Colorado	Arapahoe	<input type="button" value="X"/>
Colorado	Larimer	<input type="button" value="X"/>
Wyoming	--	<input type="button" value="X"/>

**HUC Filters**

If a HUC is selected that is outside of your jurisdiction then no results will be returned for that HUC in the report.

**HUC:**

**Selected HUC Filters**

HUC	Region	Sub Region	Basin	Sub Basin	Watershed	Sub Watershed	
140100	Upper Colorado Region	Colorado Headwaters	Colorado Headwaters	--	--	--	<input type="button" value="X"/>

[Download Report](#)



Users can search for HUCs or enter them directly into the Usage Detail Report.

HUC Search

Hydrologic Unit Code (HUC)

If you already know the HUC code, you may enter it directly.  
Alternatively, use the menus below to drill down to the desired HUC level.  
Select the Done button when you have identified a 2, 4, 6, 8, 10 or 12 digit HUC.

HUC Code:

Search By Code

HUC Region:

01 New England Region

02 Mid Atlantic Region

03 South Atlantic-Gulf Region

04 Great Lakes Region

05 Ohio Region

06 Tennessee Region

07 Upper Mississippi Region

08 Lower Mississippi Region

09 Souris-Red-Rainy Region

Done

Cancel

HUC Search

Hydrologic Unit Code (HUC)

If you already know the HUC code, you may enter it directly.  
Alternatively, use the menus below to drill down to the desired HUC level.  
Select the Done button when you have identified a 2, 4, 6, 8, 10 or 12 digit HUC.

HUC Code:

050500

Search By Code

HUC Region:

05 Ohio Region

HUC Sub Region:

05 Kanawha

HUC Basin:

00 Kanawha

HUC Sub Basin:

01 Upper New

02 Middle New

03 Greenbrier

04 Lower New

05 Gauley

06 Upper Kanawha

Done

Cancel





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